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# GRAY CODES WITH EQUAL BIT-ERROR PROBABILITIES

Jacques E. Ludman John L. Sampson

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It is often desirable to use Gray codes with proof the standard binary reflected code. Previously, 256-element) could be systematically generated or properties. This report describes a technique whe element or longer) as well as short codes can be s desired properties. The technique is described an codes of various lengths with the desired property counts. Several examples of the use of the techniq	only short codes (3 found with a giver set of re long codes (65,000-ystematically generated with d demonstrated by generating of equal column change							

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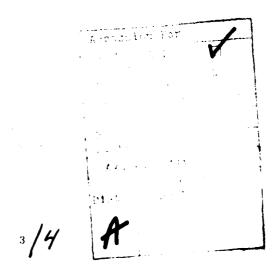
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### Preface

The original idea that Gray code sequences can be moved to alter the nature of a Gray code comes from Jerry Silverman, RADC/ESE, who noted that in a Gray code path (not cycle), the last pair could usually (not always) be inserted elsewhere in the code. If a place for the pair could not be found, the last group of 4 or 6 could be checked and an insertion point found for it.



		Contents
1.	INTRODUCTION	ī
2.	THEORY	8
3.	MOVEMENT OF PAIRS	9
4.	MOVEMENT OF LONGER SEQUENCES	11
5.	GENERAL MOVES	14
6.	CONCLUSIONS	15
7.	TRANSITION SEQUENCES FOR GRAY CODES	16
RE	FERENCES	80
		Illustrations
1.	Four-bit Binary Reflected Gray Codes With Reflection Boundaries Indicated	9
2.	Four-bit BRC Transformed With Two Moves, A and B. That Preserve the Gray Code Property	10
3.	A 5-bit BRC	12
4.	A Variety of Moves Leading to a 6-bit Gray Code With a Column Change Count of 10, 10, 10, 12, 12	13
5.	A Variety of Possible Moves for a 6-element Sequence	15

		Tables
1.	Transition Sequence for 3-bit Gray Code With Uniform Distribution	
	of Column Changes	16
2.	Transition Sequence for 4-bit Gray Code With Uniform Distribution of Column Changes	16
3.	Transition Sequence for 5-bit Gray Code With Uniform Distribution of Column Changes	16
4.	Transition Sequence for 6-bit Gray Code With Uniform Distribution of Column Changes	16
5.	Transition Sequence for 7-bit Gray Code With Uniform Distribution of Column Changes	16
6.	Transition Sequence for 8-bit Gray Code With Uniform Distribution of Column Changes	17
7.	Transition Sequence for 9-bit Gray Code With Uniform Distribution of Column Changes	17
8.	Transition Sequence for 10-bit Gray Code With Uniform Distribution of Column Changes	17
9.	Transition Sequence for 11-bit Gray Code With Uniform Distribution of Column Changes	18
0.	Transition Sequence for 12-bit Gray Code With Uniform Distribution of Column Changes	19
1.	Transition Sequence for 13-bit Gray Code With Uniform Distribution of Column Changes	21
2.	Transition Sequence for 14-bit Gray Code With Uniform Distribution of Column Changes	25
13.	Transition Sequence for 15-bit Gray Code With Uniform Distribution of Column Changes	33
14.	Transition Sequence for 16-bit Gray Code With Uniform Distribution of Column Changes	49

## Gray Codes With Equal Bit-Error Probabilities

#### 1. INTRODUCTION

Gray codes <sup>1</sup> are used extensively in a variety of applications, such as shaft encoding or analog-to-digital conversions to minimize the effects of ambiguous analog signals near boundaries. <sup>2</sup> The codes are used also in the design of experiments <sup>3,4</sup> to minimize parameter changes. Perhaps the most important application is the use of Gray codes in phase-shift-keyed (PSK) communications. For these applications, it is important to be able to generate Gray codes with particular characteristics. One extremely important set of Gray codes is the one with equal numbers of changes in each column of bits. This set has equal bit-error probabilities in PSK communications. Examples of members of this set for 3 bits to 16 bits are given in Tables 1 through 14.

The technique developed here to generate these codes is based on the symmetry properties of the binary reflected code (BRC)<sup>5-7</sup> and the transformation of the BRC in accordance with simple rules. Codes up to 12-bit (4096-element) are readily transformed with pencil and paper, whereas larger codes, up to 20-bit (1,048 576-element), can be transformed with the aid of a computer.

<sup>(</sup>Received for publication 24 August 1981)

<sup>(</sup>Cited references are listed on page 80.)

#### 2. THEORY

The fundamental property of a Gray code is that when expressed in binary form every element differs from each of its neighbors in one bit only. Since each observed ment has N bits, it has N potential neighbors. Two of those neighbors will be the actual neighbors; the others will be located elsewhere in the code. The fundamental feature of the code transformation is that the sequence of elements between a given element and one of its potential neighbors can be removed, locating the remaining sequence still a Gray code. If new neighbors for the removed sequence can be found adjacent to each other, the sequence may be inserted between them, resulting in a new Gray code containing all the elements of the origin decode but in a different order and thus with different properties.

The symmetry of the BRC is such that removable sequences and their insert; a points are easily located and the effects of moving such sequences are predictable. Figure 1 may be used to show how this is done in the simple case of 44-bit BRC. A boundary, called the half-boundary, has been marked halfway down the code, between elements 8 and 9. The entire portion of the code above this boundary is "reflected" below it, the elements, in reverse order, differing from their counterparts above only in the leftmost bit, which will be referred to as bit number 1. Thus the reflection of element 2 (0001) is element 15 (1001). Similarly, the quarter-boundaries and eighth-boundaries are indicated, reflecting the element with changes in bit number 2 and bit number 3, respectively. Binary reflected codes are always circuits; element 1 may be considered adjacent to element 16.

In Figure 1, it may be seen that element 4, in addition to its neighbors 3 and 5, has two potential neighbors 1 and 13, which are its reflections across the adjacent eighth-boundary and the half-boundary, respectively. Since elements 1 and 4 are potential neighbors, it is clear that elements 2 and 3 could be removed and that the remainder would still be a Gray code. Now it may be seen that elements 2 and 3 have as potential neighbors their reflection across the half-boundary, elements 15 and 14. The removed sequence, 2, 3 could therefore be inserted (in reverse order) between elements 14 and 15, resulting in a new Gray code containing all the elements of the original BRC. If the changes in each column of bits in Figure 1 are counted, the difference between the two codes becomes apparent: the BRC has 2 changes in column 1 (leftmost), 2 in column 2, 4 in column 3, and 6 and column 4. After transformation the column change count pattern has changed the accolumn 4. After transformation the column change count pattern has changed the included in the count, 1.

<sup>T</sup> ni	tial Co	ode					Tra	nsfoi	rmed	Code
Element		B		ш. 4	Boundaries	Element	Д •		ıts #2	
Number	<del>+</del> 1	#2	#3	#4		Number	# 1	#2	#3	#4
1	0	0	0	0		1	0	0	0	0
2	O	0	0	1	1/8	4	0	0	1	Э
3	0	0	1	1	170	5	0	1	1	0
4	ð	0	1	0	1/4	6	0	1	1	1
5	0	1	1	Û	1, 4	7	0	1	0	1
6	0	1	1	1	1/8	8	0	1	0	0
7	. 0.	1	0	_1	1:0	ġ	1	1	)	0
8	0	1	0	G	1/2	10	1	1	7	1
9	1	1	0	0	1, 4	1.1	1	1	1	1
10	1	1	0	1	1/8	12	1	1	1	0
11	1	!	1	7	., .	13	1	J	1	Ü
12	ì	1	1	0	1/4	14	1	0	1	1
13	7	0		0	1, 1	3	0	4)	1	1
14	1	0	1	1	1/8	2	0	0	0	1
15	1	0	0	7	170	15	1	0	Û	1
16	1	6	0	0		16	1	O	0	0
No. of						No. of				
Changes	2	2	4	8		Changes	4	2	4	6

Figure 1. Four-bit Binary Reflected G: v Code With Reflection Boundaries Indicated. Flements 2 and 3 can be inserted between elements 14 and 15 without death-bying the Gray code property.

#### ALC: MOST MESTIGE PARK

The reconnections, promoned and inscription of towhere) that, as he made is that of a made is cone and such as no transported as what is his more, labeled "A in a made is so a population behalf as the contract of a made in the transported and the well also are contract of a made in the move of a transported and a made in the move of a transported and a made in the columns, and that move A, of a made in the columns are contract of a made in the columns and substitution of the column two dampes to a during and substitution of a made in the columns and that move A, of a made in the column is a made in the column and substitution of a made in the column and substitution of the column and substitution of the column and the column as the column as the column as the column as a made in the mass and transport of the first transport of the change count in promise K by a made of the column as the column as a special case of a set of more general rules.

It oesset to the different he explanation of more a suplicated a comments of points of songer's process, the process will be described a superior sequence) tooying between the combs sof another pair as bong "eaten" of that pair. The fact that a sor most extended their pair for a sequence) does not prevent the eating pair from meaning out these not change the effect of such a move. As equence that has been

eaten is simply carried along in the move of the pair that has eaten it. The change count is not affected by the presence of the sequence that is carried along. In the example (Figure 2), if move A alone is made, the new order of element numbers is

1, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 3, 2, 15, 16.

Move B alone results in

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 14, 11, 12, 13, 16.

Move A followed by move B results in

1, 4, 5, 6, 7, 8, 9, 10, 15, 2, 3, 14, 11, 12, 13, 16.

The column change count after both moves is 4, 4, 4, 4. There may be more than one way to reach a particular distribution of column changes; for example, 4, 4, 4, 4 may equally well be achieved if 4,5 eat 12,13 and 2,3 eat 6,7. The resulting Gray codes, of course, are not the same.

		Iı	nitial	Coc	le		Transformed Code					
Element Number		#1	Bi #2	ts #3	#4	Boundaries	Element Number	# 1	#2	#3	#4	
1 2 3 4 5 6	A	~°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	0 0 0 0 1 1	0 0 1 1 1 1 0	0 1 1 0 0 1 1		1 4 5 6 7 8 9	0 0 0 0 0 0	0 0 1 1 1 1	0 1 1 1 0 0	0 0 0 1 1 0 0	
8 9 10 11 12 13 14		0 1 1 1 1 1	1 1 1 1 0 0	0 0 1 1 1 0 0	0 1 1 0 0 1	1/2 1/4 <b>B</b>	10 15 2 3 14 11 12 13 16	B A (0)	1 0 0 0 0 1 1 0	0 0 0 1 1 1 1 0	1 1 1 1 1 0 0	
16 No. of Changes		2	2	4	8		No. of Changes	4	4	4	4	

Figure 2. Four-bit BRC Transformed With Two Moves, A and B. That Preserve the Grav Code Property  ${\sf Code}$ 

#### 4. MOVEMENT OF LONGER SEQUENCES

Moving pairs can reduce the column change count only in the Nth column of an N-bit code. In order to reduce the count in other columns, longer sequences must be moved. They turn out to be of length 4, 8, 16, and so on. A sequence of four may be moved if all the bits in the next-to-last (N-1) column are alike. A sequence of eight must have like bits in column N-2, and so on. Figure 3 shows a 5-bit (32-element) BRC with a column change count of 2, 2, 4, 8, 16. Move A carries a sequence of eight across the half-boundary. In order to remain a Gray code, elements 8 and 9 must be matched with 25 and 24 respectively; this requires that the sequence of eight be inverted by halves, placing its last four elements before its first four. The order that results is

 $1, 2, 3, 4, 5, 6, 7, 8, 25, 26, 27, 28, 21, 22, 23, 24, 9, 10 \dots$ 

Two changes have been subtracted from column 3 and added to column 1. Examination of the effects of moves such as this one leads to the formulation of two rules:

- Rule 1. If a sequence of  $2^{(P+1)}$  elements is moved, where P is any integer between zero and N-3, the number of changes in column N-P is reduced by 2.
- Rule 2. If a sequence (of any size) is moved across a  $(1/2)^{K}$  boundary, the number of changes in column K is increased by 2.

There are some restrictions on the movement of sequences:

- Rule 3. A sequence of  $2^{(P+1)}$  elements must have like bits in all elements in its N-P column.
- Rule 4. A sequence may be moved and eaten only once (see Rule 6).
- Rule 5. A pair may eat only once.
- Rule 6. A pair may eat a sequence that includes other eaten sequences; no chain of moves, however, may result in a pair ultimately eating itself.
- Rule 7. After a sequence has moved, adjacent elements usually cannot move. (For example, after move A in Figure 3, elements 20 and 29 are fixed.) An exception to this rule will be seen shortly.

Element			Bits		ŀ	Boundari	.es				
Number	# 1	#2	#3	#4	#5						
1	0	0	o	0	O						
3	Ü	Ü	0	0	i						
$\frac{2}{3}$	Ü	ō	0	1	1,						
4 5	0	0	0	ì	0 /						
5	U	U	l	1	OFE	3					
6	0	0	1	1	1 '						
7 8	0	0	I	0	1	1				Cz	lumn
8 9	<u> </u>	0 1-	- <u>l</u>	0	$\frac{0}{0}$	1/4	Move	Size	A. mes		ge Count
10	10	1	1	0	ì	1	111713				
11	1 Fig	1	i	1	î	1	(BRC)			2 2	4 8 16
12		Ī	i	1	0 _	1/8	A	8	1/2	4 2	2 8 16
13	0	1	0	1	0	1:0	$\mathbf{B}$	4	1/4	4 4	2 6 16
14		1	0	ì	1 1		C.	2	1/8	4 4	4 6 14
15	- 0	1	0	0	_ <u> </u>	=	Ð	2	1 · 8 1 <sup>/</sup> 4	4 4 4 4 6	6 6 12 6 6 10
16	0	1	$\frac{0}{0}$	$\frac{0}{0}$	$-\frac{0}{0}$ .	1/2	E	2	$\frac{174}{1/2}$	6 6	5 5 3
17 18	1	1	9	0	1		1	÷	1/2	4 0	9 9 0
19	· · · · · · ·	ı l	0	1	-   ◀						
20	D'1	i	ó	1	ō						
21		1	1	1	0	1.8					
22		1	1	1	11_						
23		1	1	1	1 E	=					
24	$A \rightarrow$	1	1	0	$\frac{0}{0}$	1.4					
25	) :	0	1	0	1	}					
26		0	1	1	\ \						
28	i J	ő	ì	i	ó						
21 22 23 24 25 26 27 28 29	î	ō	ó	ī	0						
30	i	0	0	1	1						
31	1	0	0	0	1						
32	1	0	0	0	0						

Figure 3. A 5-bit BRC. Letters A through F indicate a set of 6 moves leading to a column change count of 6, 6, 6, 8

In Figure 3, move A separates elements 24 and 25 making them ineligible for turther moves as a pair, but leaves pairs 22, 23 and 26,27 still movable. Move is takes a sequence of four across a quarter-boundary. An inversion by halves is again necessary, leading to the order:

... 10, 11, 12, 5, 6, 3, 4, 13, 14 ...

By rules 1 and 2, the count in column 4 goes down 2 and that in column 2 goes up 2.

After moves A and B, other moves may be made to complete the transformation of the BRC into a Gray code with, for example, an equal distribution of column changes. The length of the sequence determines the column whose count is decreased (Rule 1); the boundary across which the sequence moves determines the column

whose count is increased (Rule 2). This type of move is all that is necessary for

most of the desired distributions. There are several other allowed moves which are useful in the remaining cases.

A pair through which a higher-symmetry (lower K) boundary passes may move after both of its lower-symmetry neighboring pairs (through which a lower-symmetry boundary passes) have moved. This is an exception to Rule 7. The move labeled "F" in Figure 4 is an example of such a higher-symmetry move. The requirements for such a move are that both neighboring pairs have previously moved (moves D and E in Figure 4) and that the next-nearest neighbors be in place (elements 1 and 8 in Figure 4). The effect of such a move increases the column count as before, but the column decreased by two is column N-1 rather than column N. A still higher-symmetry move can be made if exactly three pairs of elements have been moved from each side of a given element. The count decrease here is in column N-2 and for higher-symmetry moves in correspondingly lower columns.

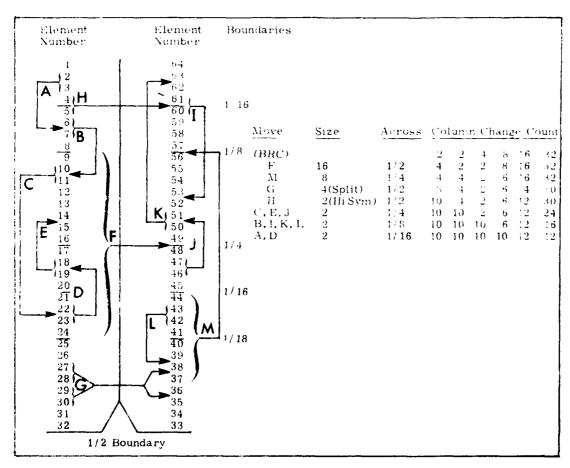


Figure 4. A Variety of Moves Leading to a 6-bit Gray Code With a Column Change Count of 10, 10, 10, 10, 12, 12. The lower half of the code has been folded upward for convenience, and the listing of bits omitted

Sequences of four or more need not be placed between the same elements but may be split up in a variety of ways; for example, the 3,4,5,6 sequence of four may split into 3,4 entering 13,14 and 5,6 entering 11,12. This decreases column N-1 by two and N by two, and increases column 1 by four.

Tables 1 through 14 list the transition sequences for 3-bit through 16-bit circly codes with equal bit-error probabilities. Each number in a table identifies the bit that changes between elements. These codes were generated from the BRC using the moves thus far described. Figure 4 shows all of the foregoing moves used to generate a 10, 10, 10, 10, 12, 12 distributed code (N = 6), with the final sequence of BRC numbers

```
1,8,25,26,31,32,33,34,35,30,29,36,45,48,17,20,21,24,9,12,13,14,19,22,11,6,3,2,7,10,23,18,15,16,49,52,61,4,5,60,53,54,55,56,41,44,37,28,27,38,43,42,39,40,57,58,59,62,51,46,47,50,63,64.
```

#### 5. GENERAL MOVES

The moves noted in the previous sections are sufficient to change the BRC to another Gray code with any desired column change count. They are well-suited to the task because each move reduces the change count in one column and increases it in another in a thoroughly predictable way. For other purposes, there is a still more general class of moves which is useful and which includes these moves as a subset.

Symmetrically centered about every reflection boundary are a number of sequences that can be moved. In the 5-bit case already examined (Figure 3), for example, the quarter-boundary between 8 and 9 is a reflection boundary for sequences 5-9, 7-10, and 5-12 (of lengths 2, 4, and 8), as already noted. In addition, there are sequences 6-11, 4-13, 3-14, and 2-15 which are of length 6, 10, 12, and 14, respectively, and thus do not satisfy fluid 1. Nevertheless, they may be moved across the boundary and inserted in the proper place. Furthermore, there are other points where, with the right kind of inversion, these sequences can also be inserted.

The procedure is to locate a desired insertion point and invertible sequence by sections, breaking it at a point to match the insertion point. For example, the consequence can be inserted between elements 24 and 25 by inverting at the synometry point to get

```
... 24, 9, 10, 11, 6, 7, 8, 25 ...
```

or can be inserted between 22 and 23 by inverting at 10, 11 to get

. . . 22, 11, 6, 7, 8, 9, 10, 23 . . .

In addition, long sequences may be split up into parts, which are then inserted where needed.

Moves of this type are useful in solving such problems as Gray codes with time linearity.  $^6$  If the group of six in Figure 5 is inverted and put between 10 and 11 the order becomes

1, 8, 9, 10, 7, 2, 3, 4, 5, 6, 11, 12, 13, 14, 15, 16.

If the pair 2,3 then eats pair 14,15, the result is the N=4 minimum time linearity found by Dickinson. With the use of such moves, and with an interactive computer to calculate the linearity (or some other desired property), the BRC can be readily converted.

Element Number	#1	#2	its #3	#4	Boundaries
	#1  O O O O O O O O O O O O O O O O O O			#4  0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1	Boundaries
15 16	1	0	0	1 0	

Figure 5. A Variety of Possible Moves for a 6-element Sequence. The final column change count depends upon where the sequence goes

#### 6. CONCLUSIONS

The task of creating Gray codes with a given set of characteristics has been shown to be solvable by locating and removing sequences from the binary reflected Gray code and reinserting these sequences in other parts of the code. These removable sequences abound and can be readily located by symmetry. The locations

for reinsertion of a sequence are numerous and also readily located by symmetry. The simple inversion of the moving sequence is obvious on comparing the sequence and the insertion point. With a little familiarity with moving sequences, it becomes easy to see how to split them up and put the pieces into various locations.

A particular subset of the allowed moves has the property of changing the column change counts in an exact way; the procedure has been given here for using that subset of moves in a straightforward way to convert the BRC to a Gray code with any desired change count distribution.

#### 7. TRANSITION SEQUENCES FOR GRAY CODES

TABLE 1. TRANSITION SEQUENCE FOR 3-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

#### 12131213

TABLE 2. TRANSITION SEQUENCE FOR 4-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

#### 23241432 34131214

TABLE 3. TRANSITION SEQUENCE FOR 5-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

34243425 15251315 43234514 12131215

TABLE 4. TRANSITION SEQUENCE FOR 6-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

34352543 45242326 16261316 45436263 45461412 13251565 25651312 14121326

TABLE 5. TRANSITION SEQUENCE FOR 7-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

34353436 26454345 46243534 37172717 37175645 43727345 46571417 52571753 57252324 23261676 45254676 13162614 16261316 26151675 25761312 14121327

## TABLE 6. TRANSITION SEQUENCE FOR 8-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

34385834 36343534 37343534 36343534 36182618 67864543 45465768 18281418 28183825 28657535 75682428 63682623 24232523 24232717 27131727 14172713 17271517 68657546 45482845 46457568 67131768 65754645 48284546 45756867 14176865 72756867 13176865 72756867 16121312 14121312 57828713 12142328

## TABLE 7. TRANSITION SEQUENCE FOR 9-BIT GRAY CODE WITH UNIFORM DISTRIBUTION LF COLUMN CHANGES

 45464535
 65456537
 34353436
 34353438
 34353436
 34353437
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 34353436
 34353436
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 343546
 343546

# TABLE 8. TRANSITION SEQUENCE FOR 10-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

 45464547
 4546454A
 8A454645
 47375658
 56575654
 56575658
 56573546
 36463534

 39343534
 36343534
 36343534
 38343534
 36343534
 37343534
 36343534

 3A1A7828
 7A1A7838
 7A1A7828
 7A141A78
 287A1A78
 387A1A78
 287A151A
 78676965

 75658542
 A5836575
 4947687A
 1A786769
 65756585
 35856575
 6967687A
 1A786769

 65756585
 A4A6AAAC
 A1A7445A
 4A6A4A5A
 4A5A4A5A
 <

TABLE ?. TRANSITION SEQUENCE FOR 11-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

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45464547 45464548 45464547 45464549 45464547 45464548 45464547 45464546
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18897826 79881889 78387988 18897828 79881418 89762879 88188976 38798818
89782879 88151889 7828798B 18897838 7988182B 14182816 38182816 1828183E
1B2B142B 3B252B3B 24373435 34363435 34383435 34363435 34373435 34263435
34392939 24293925 29392429 39262939 24293925 29392429 39272939 34293925
29392429 8B879787 6A676865 75659565 75636575 65956579 6667667 67978B899
26298B87 97838797 88892429 88838B89 25298B83 88892429 88836B89 28232423 25232423 26232429 88797876 A6768657 56595657 56548414 64547454 64543454
64547454 64548456 57565956 57568676 A6787978 B9253437 34353436 34353437
14241434 1.241414 24143414 24151424 14341424 14142417 34141416 (6341434 14241414 24143414 24151424 14341424 14147828 24148827 VALASER 23171478
3797876A 67682967 6A618797 889A1A9B 3797876A 6766786 GA67879 889A1A9D
8797676A 67682867 6A678797 889A141A 98879787 6A676818 606A6787 978B9A1A
98879787 64676830 67646787 97889414 98879787 64676018 67646780 07889415
14988797 87646768 65756595 65758285 75659565 75686768 67879788 94151490 87978764 67686575 65956575 82857565 95657568 67646780 97889914 14241310
2A161A2A 131A2A14 1A2A131A 2A151A2A 131A2A14 1A2A131A JA181A98 5858889A
131A98B8 28B89A14 1A98B828 B89A131A 98B828B8 94151A96 E328B89A 131A98B8
79782879 78889A14 1A98b379 78287978 $89A131A 98887979 28797886 9A161A98
88797876 A6768657 56595658 78586848 58488848 58486840 58487845 48684851
4B2B4B5F 4B6B454B 7B4B5B4F 6B4R5B4F 8B4B5B4B 6B5B7B56 59565756 8676A678
7978B89A 131A98B8 797876A6 76865756 59565B7F 5B6B4B5F 4B6B4B5F 4B6B4B5F
48784548 68485848 28485848 68454878 48584868 48584888 48584868 58785659 56575686 76A67879 78889414 14929413 14929415 14929413 14929414 14929413
1A929A17 1A929A13 1A929A14 1A929A13 1A929A15 1A929A13 1A929A14 1A929A13
1A929A16 1A929A13 1A929A14 1A929A13 1A929A15 1A929A13 1A929A14 1A929A13 1A929A14 1A929A13 1A929A19 12131214 12131215 12131214 12131216 12131214 12131215 12131214
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23242327 23241AB2 BA131AR2 BA151AB2 BA131AR2 BA142326 23242325 2324232F
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TABLE 10. TRANSITION SEQUENCE FOR 12-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

45484547 45484546 45484547 45464549 45464547 45464548 45464547 45464548 45464547 45464548 45464547 45464549 45464547 4546454**8 45464547 4546454**B 45464547 45464548 45464547 45464549 39787848 78793**546 45473797 87R76867** 69676867 565A5657 56585657 56595657 56585657 56585657 56585657 56595657 5.6585657 5.65A5617 68676967 6867B7B7 97353797 87B76B67 69676B64 68676967 58678797 9 364548 38483538 7978784E 78797836 34353437 34353436 3435343A 34353436 34353437 34353436 34353438 34353436 34353437 34353436 34353439 34353436 34353437 34353436 34353438 34353436 34353437 34353436 34353436 10201030 10201410 20103010 20151020 10302436 34353437 34353436 34353438 34353436 34353432 34353436 34353439 34353436 **34353437 34353436 34353438** 34353436 34353437 34353436 3435343A 1A2A1A3A 1A2A141A 2A1A3A1A 2A151A2A 16361626 14263626 26362426 36252636 24263627 26362426 96898687 97878768 %7%96768 67565A56 57565856 57565953 59565756 585<mark>65756 5A565768 67696768</mark> 57878797 8A898C9A 252A9C89 8A879787 87686769 67686368 67696768 67878797 8A898C9A 242A9C39 8A8797B7 3787978A 898C9A26 2A9C898A 879787B6 76867696 7.863686 76967686 76B78797 8A898C9A 242A9C89 8A879787 B3B78797 8A898C9A 252A9689 8A879787 B3B78797 8A89869A 242A9689 8A87<mark>9787 B3B78797 8A89869A</mark> 282AY39A 242A939A 252A939A 242A939A 262A939A 242<mark>A939A 252A939A 242A9C98</mark> A8797878 76867696 76867565 A5657565 85657565 95645474 54645484 54645474 94645434 54645474 54645484 54645474 54659565 25<mark>658565 2565A565 7686269</mark>6 ~6867878 79784890 96272670 9843A890 96242A90 98**43A890 94252A90 98A3A890** 9A242A9C 98A3A89C 9A262A9C 98A3A89C 9A242A9C 98A3A89C 9A252A9C 98A3A89C 9A242A9C 98A3A89C 9A292324 23252324 23262324 23252324 23273435 34363435 34383435 34363435 34373435 34363435 34381828 18381828 14182818 38182815 18281838 18AC2CA8 1416AC2C AB18AC3C AB18AC2C AB161BAC 2CAB1BAC 3CAB1BAC [PAB141B ACCCAB1B ACCCAB1B ACCCAB15 1BACCCAB 1BACCCAB 1BACCCAB 141BACCC AB1BACCC AB1BACCC AB1BACC 2CAB1BAC 3CAB1B2B 141B2B1B 3B1B2B15 1B2B1B3B 18281418 28183818 28164828 18381828 14182818 38182815 18281838 18281418 PP1B3B1B 2F181B2B 1E3F1B2B 141B2B1B 3F1B2B15 1B2B1B3B 1B2B141B 2B1B3B1B PF16152B 1535152F 14152B15 35152515 1525153B 1525141B 25153B1B 2517152B .TTB2B14 1B2B131E CP151B2R 131B2B14 1B2B131B 2B161B2B 131B2B14 1B2B131B CE151828 13182814 18281318 28191849 C9842489 C9481318 49C98424 89C94814

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1BA9C98A 2A89C9AB 131BA9C9 8A2A89C9 AB151BA9 C98A2A89 C9AB131B A9C98A2A
89C9AB14 1BA9C98A 2A89C9AB 131BA9C9 8A2A89C9 AB161BA9 C98A2A89 C9AB131R
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70405040 60405040 80405040 60405040 70405040 60405040 20405040 60405040 70405040 60509050 60507050 60508056
57565A56 57686769 67686787 87978A89 C9AB131B A929AB14 (BA929AB 131FA929
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#3626867 69676867 68787978 #89809AB 141BA908 98A87978 T0575867 #9505860
68676967 58675878 "978A898 89AB1318 A90898A8 79787867 5867696" 58525867
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78787686 76967682 86769670 84787879 78A898CY AB1318A9 C696A679 787F Just
76967686 75658565 75658606 05070506 05090502 05090506 (MC70506 05856) 15
65A56576 86769676 867B7879 78A898C9 AF141BA9 C898A879 787B2686 76967636
7565A565 75650805 06050705 06050905 06040504 07040504 06040504 08040504
06040504 07040504 06040504 02040504 06040504 07040504 06040504 08040504
C6C4C5C4 C7C4C5C4 C6C5C9C5 C6C5C7C5 C6C5C8C5 657565A5 65768676 9676867K 787978A8 98C9AB13 1BA2AB17 1BA2AB13 1BA2AB14 1BA2AB13 1BA3AB15 1FA2AB13
1BA2AB14 1BA2AB13 1BA2AB16 1BA2AB13 15A2AB14 12131215 12131214 1213121A
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TABLE 11. TRANSITION SEQUENCE FOR 13-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

45464547 45464548 45464547 45464549 45464547 45464548 45464547 4546454A 45464547 45464548 45464547 45464549 45464547 45464548 45464547 4546454B 45464547 45464548 45464547 45464549 45464547 45464548 45464547 45464548 45464547 45464548 45464547 45464549 45464547 45464548 45464547 4546454C 45464547 45464548 45464547 45464549 45464547 45464548 45464547 45464546 45464547 45464548 45464547 45464549 45464547 45464548 45464547 4546454B 3B898A4A 898R353B 898A4A89 8B363B89 8A4A898B 35474546 454838B8 98A87978 7C787949 787C7879 78A898R8 3538R898 A879787C 78794978 7C787978 A898R836 38B898A8 79787C78 79768676 A6768676 96768676 B6575658 56575659 56575658 5657565A 5657565B 56575659 5657565B 56575654 5657565B 56575659 5657565B 5657565A 5657565B 56575659 5657565B 565756B6 76867696 768676A6 76867978 7C787978 A898B835 38B89848 98B83738 B898A787 9787C787 9768676A 67686769 6768676B 4B676867 69676867 6A676867 9787C787 9787A898 B8353436 34353439 34353436 34353437 34353436 34353438 34353436 34353437 34353436 3435343A 34353436 34353437 34353436 34353438 34353436 34353437 34353436 34353438 34353436 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 3435346 34356 3456 34353436 34353437 34353436 34353438 34353436 34353437 34353436 34353439 34353436 34353437 34353436 34353438 34353436 34353437 34353436 3435343A 34353436 34353437 34353436 34353438 34353436 34353437 34353436 34353439 34353436 34353437 34353436 34353438 34353436 34353437 34353436 34353438 18281838 18281418 28183818 28151828 18381828 14182818 38182816 18281838 1B2B141B 2B1B3B1B 2B151B2B 1B3B1B2B 141B2B1B 3B1B2B17 1B2B1B3B 1B2B141B 28183818 28151828 18381828 1418AD9A 2A9DAR18 3818AD9A 2A9DAB16 18AD9A2A PDABIBAD 9A3A9DAB IBAD9A2A 9DAB14IR AD9A2A9D ABIBAD9A 3A9DABIB AD9A2A9D ABISIBAD 9A2A9DAB IBAD9A3A 9DABIBAD 9A2A9DAB 141BAD9A 2A9DABIB AD9A3A9D ABIBAD9A 2A9DAB18 1BAD9A98 B898A879 787C7879 29787C78 7978A898 B89A9DAB 18AD9A98 8898A879 787C7879 39787C78 7978A898 889A9DAB 18AD9A98 8898A879 787C7879 29787C78 7978A898 889A9DAB 141BAD9A 98B898A8 79787C78 7929787C 787978A8 98889A91 AB1RAD9A 988898A8 79787C78 7939787C 787978A8 98889A91 AB1BAD9A 98889B8 79787C78 7929787C 787978A8 98889A91 AB151BAD 9A988898 A879787C 78792978 7C787978 A898889A 9DAB1BAD 9A988898 A879787C 78793978 7C787978 A898B89A 9DAB1BAD 9A98B898 A879787C 78792978 7C787978 A898B89A

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9DAB141B AD9A98B8 9BA87978 7C787929 787C7879 78A898B8 9A9DAB1B AD9A98B8 98A87978 7C787939 787C7879 78A898B8 9A9DAB26 2BAD9A98 8898A879 787C7879
76867686 76867696 768676B6 57565856 57565956 57565856 57565856 57565856
57375658 5657565A 5657565B 56575659 56575658 565756B6 76867696 768676A6 7686797B 7C78797B A898B89A 9DAR242B AD9A98B8 983898B8 9A9DAB25 2RAD9A98
B8983898 B89A9DAR 242BAD9A 98B89838 98B89A9D AB272BAD 9A98B898 A7879787
C7879768 676A6768 67696768 676B3B67 68676967 68676A67 68679787 C7879787 A898B89A 9DAB242B AD9A98B8 98A78797 87C78797 68676A67 68676967 68676B3D
67686769 6768676A 67686797 87C78797 87A898R8 9A9DAR25 2BAD9A93 9A9DAR24
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37343534 36343534 38343534 36343534 37343534 36343534 3C1CRD9A 9B898A2A
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9DBC151C BD9A9B89 8A2A898B 9A9DBC1C BD9A9B89 8A3A898B 9A9DBC1C BD9A9B89
8A2A898F 9A9DFC14 1CFD9A9F 898A2A89 8F9A9DFC 1CFD9A9F 898A3A89 8F9A9DFC
1CFD9A9B 898A2A89 8B9A9DBC 161CBD9A 9B89BA2A 898B9A9D BC1CBD9A 9B89BA3A
898B9A9D BC1CBD9A 9B898A78 79787C76 79768676 A6768676 96768676 B6575658
$D&D$D7D $D&D$D9D $D&D$D7D $D&D$D8D $D&D$D7D $D&D$DAD $D&D$D7D $D&D$D8D
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40504070 40504060 40504090 40504060 40504070 50605080 50605070 506050AD
50605070 50605080 50605070 50605090 50605070 50605856 57568676 86769676
8676A676 8679787C 7879787A 898B9A9D BC141CBD 9A9B898A 7879787C 7879768c
76A67686 76967686 76B65756 585D6D5D 7D5D6D5D 9D5D6D5D 7D5D6D5D 8D5D6D5D 7D5D6D5D 4D5D6D5D 7D5D6D5D 8D5D6D5D 2D5D6D5D 8D5D6D5D 8D5
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2C141C2C 1C3C1C2C 151C2C1C 3C1C2C14 1C2C1C3C 1C2C161C 2C1C3C1C 2C141C2C 1C3C1C2C 151C2C1C 3C1C2C14 1C2C1C3C 1C2C171C 2C1C3C1C 2C141C2C 1C3C1C2C
15102010 30102014 10201030 10201610 20103010 20141020 10301020 15102010
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20103010 20141020 10301020 15102010 30102014 10201030 10201810 20103010 20141020 10301020 15102010 30102014 10201030 10201610 20103010 20141020
10301020 15102010 30102014 10201030 10201710 20103010 20141020 10301020 15102010 30102014 10201030 10201610 20103010 20141020 10301020 15102010
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1CBA2ARC 151CBA2A RC1CBA3A RC1CBA2A BC141CBA 2ABC1CBA 3ABC1CBA 2ABC161C
BA2ABC1C BA3ABC1C BA2ABC14 1CBA2ABC 131CBA2A BC151CBA 2ABC131C BA2ABC14
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9D9ABC14 1CBA9D9A 929A9D9A BC131CBA 9D9A929A 9D9ABC19 1CB2BC13 1CB2BC14
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 70787978 7A896889 A9DABC13 10BAD9A9 8B898A78 79787078 79768676 A5768676
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TABLE 12. TRANSITION SEQUENCE FOR 14-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

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 45494546 45474546 45484546 45474546 45434546 45474546 45484546 454
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9A9BAERC DC151CDC BEAB9A9C 2C9A9BAE BCDC131C DCBEAB9A 9C2C9A9B AERCUC14
1CDCBEAB 9A9C2C9A 9BAERCDC 131CDCBE AR9A9C2C 9A9BAEBC DC181CDC BEAB9A9C
9BAB98BB 9BA82BAB 98B89BAB 9C9A9BAE BCDC131C DCBEAB9A 9C9BAB9B B89BAB2B
A8988898 A8909A98 AERCIC14 1010CREAR 9A9098A8 988898A8 28A898R8 98A8909A
9RAEBCDC 131CDCRE AR9A9C98 A898R898 A828A898 B898A89C 9A9RAERC DC151CDC
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TABLE 13. TRANSITION SEQUENCE FOR 15-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

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ED131DED 2DED161D ED2DED13 1DED2DED 141DED2D ED131DED 2DED151D ED2DED15
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1DED2DED 141DED2D ED131DED 2DED181D EDRCBFRA CAB2BACA BFBCBDED 131DED81
BEBACAR2 BACARERO BUED141D EDBORERA CAR2BACA REBORDER 131DERBO REBACAR.
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TABLE 14. TRANSITION SEQUENCE OF 16-BIT GRAY CODE WITH UNIFORM DISTRIBUTION OF COLUMN CHANGES

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